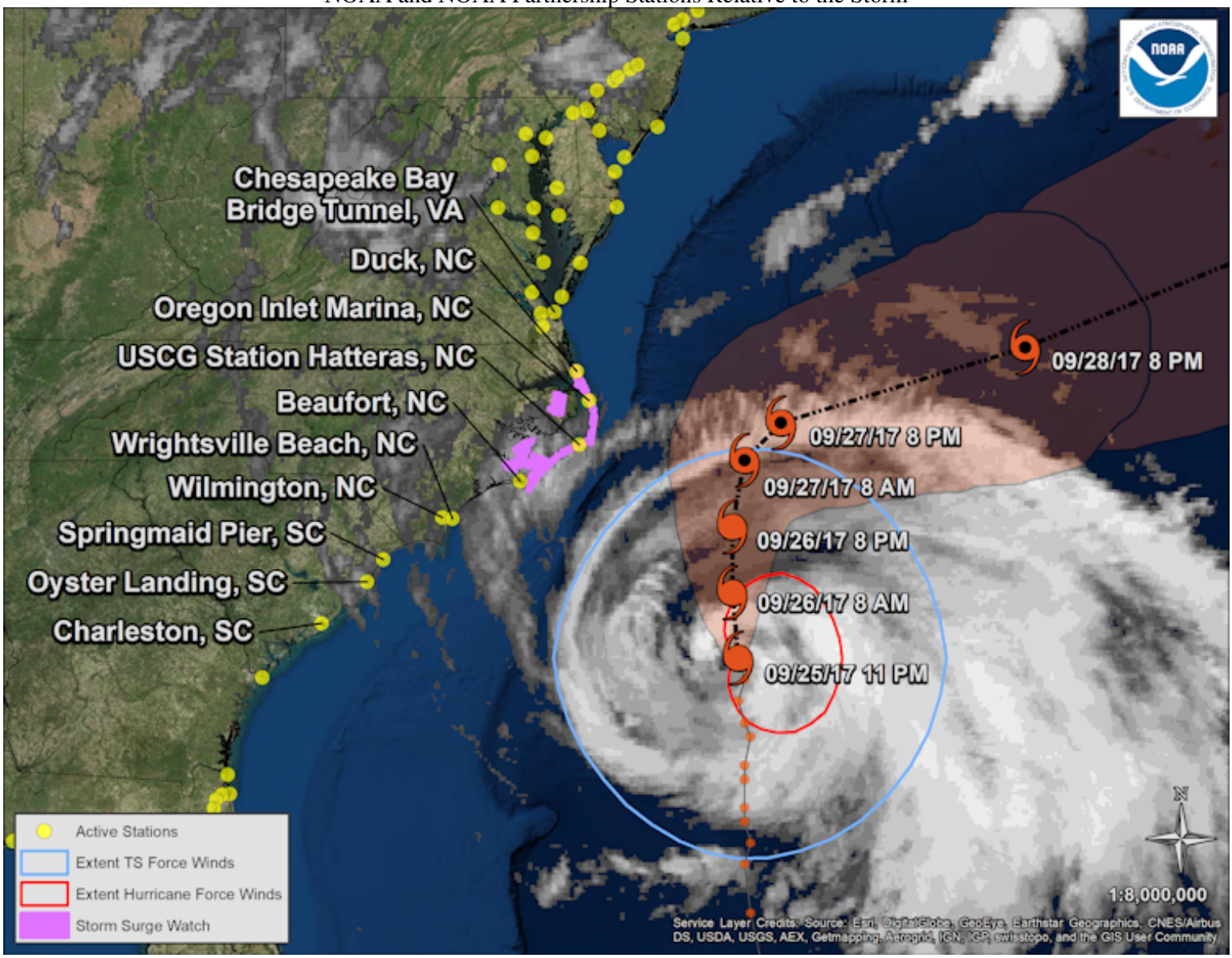
Hurricane MARIA QuickLook
Posted: 00:00 EDT 09/26/2017

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 9/26/2017 00:00 EDT, water levels along the Atlantic coast from Charleston, SC to the entrance of the Chesapeake Bay are slightly elevated and range between 0.5 and 1.6 feet above normal tide levels.

Winds range from 10 to 20 knots along the North Carolina coast with some gusts between 20 and 30 knots. Barometric pressure continues to slowly fall across the region.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional real-time andhistorical inundation information for select stations affected by this storm, please see Coastal Inundation Dashboard.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: AC

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

Hurricane Maria Advisory Number 40

NWS National Hurricane Center Miami FL

1100 PM EDT Mon Sep 25 2017

...LARGE HURRICANE MARIA CONTINUES MOVING SLOWLY NORTHWARD OFF THE SOUTHEAST UNITED STATES COAST...

SUMMARY OF 1100 PM EDT...0300 UTC...INFORMATION

LOCATION...32.3N 73.1W

ABOUT 245 MI...390 KM SE OF CAPE HATTERAS NORTH CAROLINA

MAXIMUM SUSTAINED WINDS...80 MPH...130 KM/H

PRESENT MOVEMENT...N OR 360 DEGREES AT 7 MPH...11 KM/H

MINIMUM CENTRAL PRESSURE...969 MB...28.62 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY:

None.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT:

A Tropical Storm Warning is in effect for...

* Bogue Inlet to the North Carolina/Virginia border

* Albemarle and Pamlico Sounds

A Storm Surge Watch is in effect for...

* Cape Lookout to Duck

A Tropical Storm Warning means that tropical storm conditions are expected somewhere within the warning area.

A Storm Surge Watch means there is a possibility of life- threatening inundation, from rising water moving inland from the coastline, in the indicated locations during the next 48 hours. For a depiction of areas at risk, please see the National Weather Service Storm Surge Watch/Warning Graphic, available at hurricanes.gov.

For storm information specific to your area, including possible inland watches and warnings, please monitor products issued by your local National Weather Service forecast office.

DISCUSSION AND 48-HOUR OUTLOOK

At 1100 PM EDT (0300 UTC), the center of Hurricane Maria was located near latitude 32.3 North, longitude 73.1 West. Maria is moving toward the north near 7 mph (11 km/h), and this general motion with some decrease in forward speed is expected through Tuesday night. A turn toward the north-northeast is expected on Wednesday. On the forecast track, the center of Maria will pass east of the coast of North Carolina during the next couple of days.

Maximum sustained winds are near 80 mph (130 km/h) with higher gusts. Gradual weakening is forecast during the next couple of days, and Maria is forecast to become a tropical storm Tuesday night or Wednesday.

Maria is a large hurricane. Hurricane-force winds extend outward up to 105 miles (165 km) from the center and tropical-storm-force winds extend outward up to 205 miles (335 km).

The minimum central pressure estimated from Hurricane Hunter aircraft observations is 969 mb (28.62 inches).

HAZARDS AFFECTING LAND

WIND: Tropical storm conditions are expected within the warning area beginning Tuesday.

STORM SURGE: The combination of a dangerous storm surge and the tide will cause normally dry areas near the coast to be flooded by rising waters moving inland from the shoreline. The water is expected to reach the following heights above ground if the peak surge occurs at the time of high tide...

Cape Lookout to Duck including the sound side of the Outer Banks...2 to 4 ft

Surge-related flooding depends on the relative timing of the surge and the tidal cycle, and can vary greatly over short distances. For information specific to your area, please see products issued by your local National Weather Service forecast office.

RAINFALL: Maria is expected to produce total rainfall accumulations of 1 to 2 inches over the Outer Banks of North Carolina through Wednesday.

SURF: Large swells generated by Maria are affecting much of the east coast of the United States from Florida through southern New England. These swells are also affecting Bermuda, Puerto Rico, the northern coast of Hispaniola, the Turks and Caicos Islands, and the Bahamas. These swells are likely to cause life-threatening surf and rip current conditions. Please consult products from your local weather office for more information.

NEXT ADVISORY

Next intermediate advisory at 200 AM EDT.

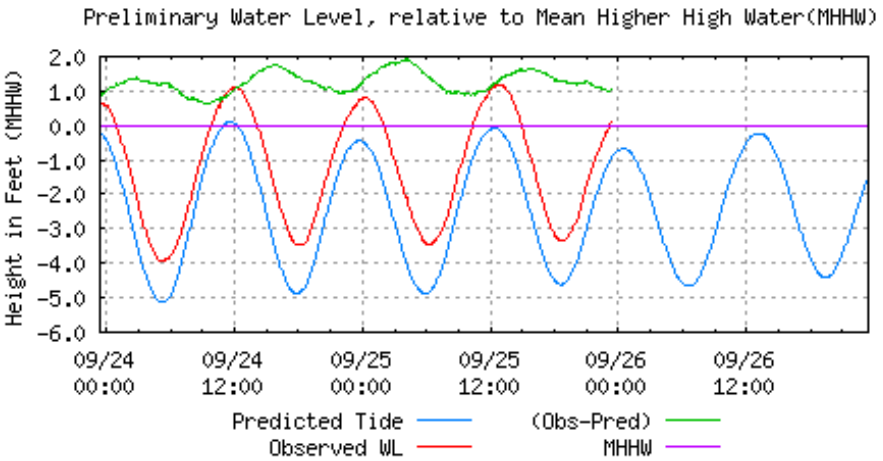
Next complete advisory at 500 AM EDT.

Forecaster Pasch

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

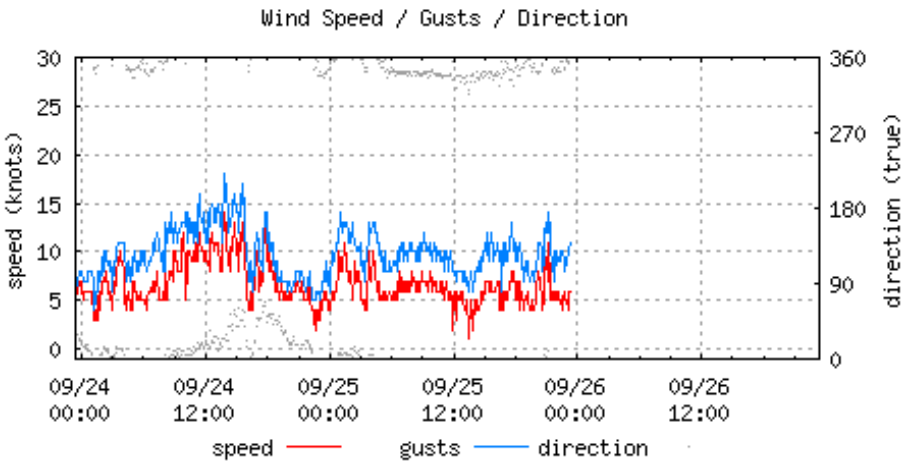
Jump to: Charleston, Cooper River Entrance - Water Level, Charleston, Cooper River Entrance - Winds, Charleston, Cooper River Entrance - Barometric, Oyster Landing (N Inlet Estuary) - Water Level, Springmaid Pier - Water Level, Springmaid Pier - Barometric, Wrightsville Beach - Water Level, Wrightsville Beach - Winds, Wrightsville Beach - Barometric, Wilmington - Water Level, Beaufort - Water Level, Beaufort - Winds, Beaufort - Barometric, USCG Station Hatteras - Water Level, USCG Station Hatteras - Winds, Oregon Inlet Marina - Water Level, Oregon Inlet Marina - Winds, Duck - Water Level, Duck - Winds, Duck - Barometric, Chesapeake Bay Bridge Tunnel - Water Level, Chesapeake Bay Bridge Tunnel - Winds

NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



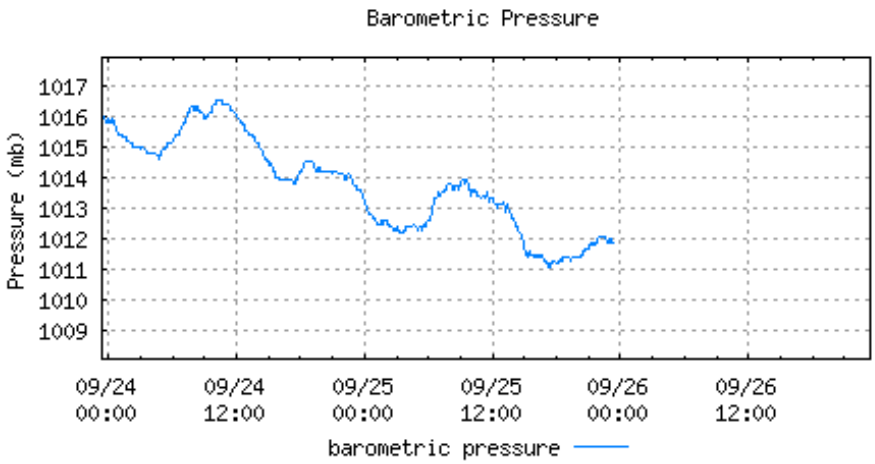
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: 0.09 ft. Predicted: -0.96 ft. Residual: 1.05 ft.
Historical Maximum Water Level: Sep 21 1989, 6.76 ft.
Next High Tide: 09/26/2017 00:26 (EDT), -0.68 ft.

NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



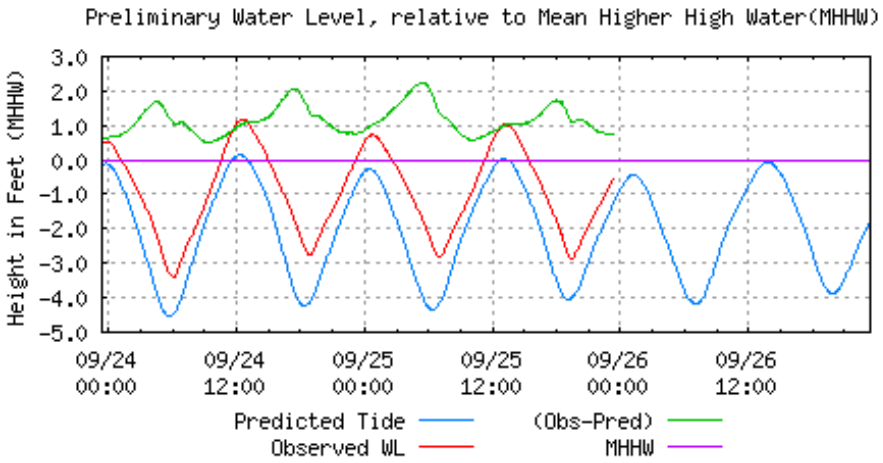
Last Observed Sample: 09/25/2017 23:18 (EDT)
Wind Speed: 6 knots Gusts: 11 knots Direction: 1° T

NOAA/NOS/CO-OPS 8665530 Charleston, Cooper River Entrance, SC



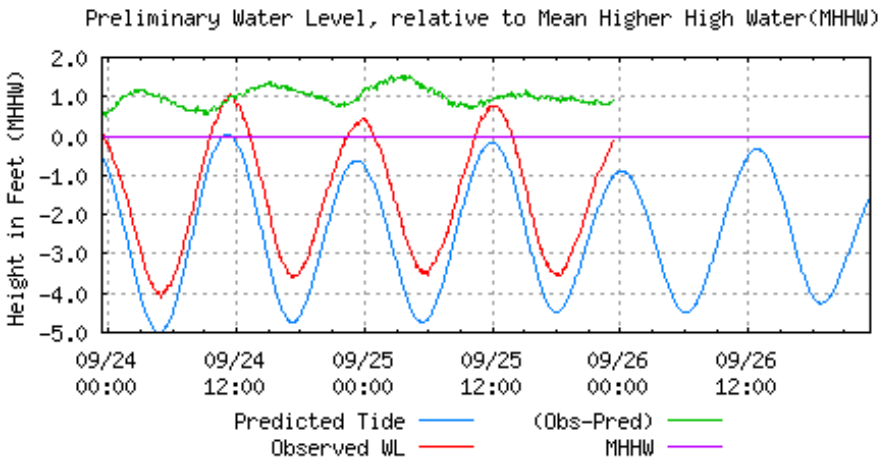
Last Observed Sample: 09/25/2017 23:18 (EDT)
Barometric Pressure: 1011.9 mb

NOAA/NOS/CO-OPS 8662245 Oyster Landing (N Inlet Estuary), SC



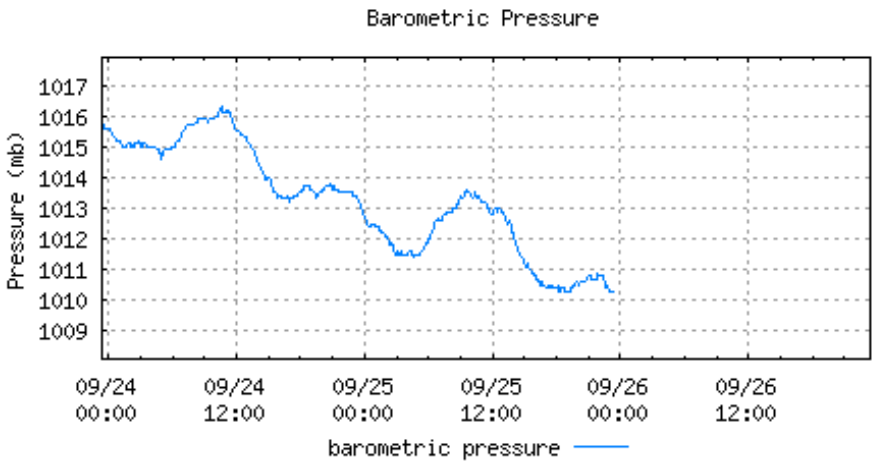
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: -0.55 ft. Predicted: -1.29 ft. Residual: 0.74 ft.
Historical Maximum Water Level: Oct 8 2016, 4.64 ft.
Next High Tide: 09/26/2017 01:14 (EDT), -0.43 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC



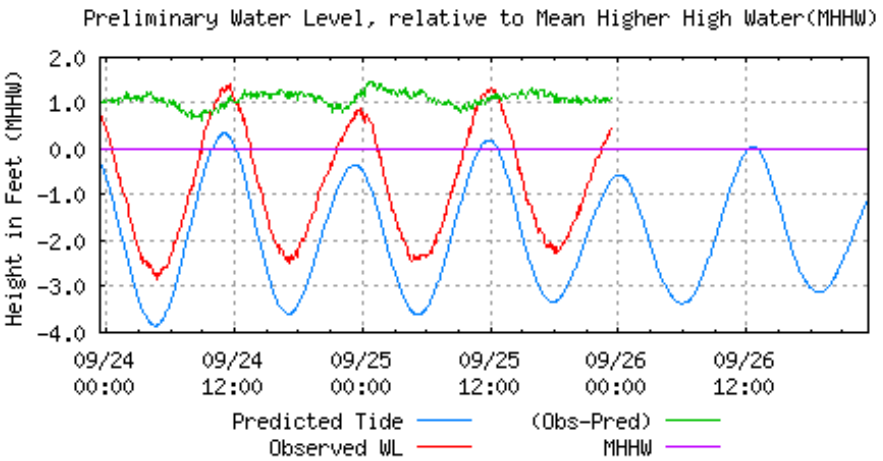
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: -0.15 ft. Predicted: -1.04 ft. Residual: 0.89 ft.
Historical Maximum Water Level: Jan 1 1987, 3.65 ft.
Next High Tide: 09/26/2017 00:06 (EDT), -0.90 ft.

NOAA/NOS/CO-OPS 8661070 Springmaid Pier, SC



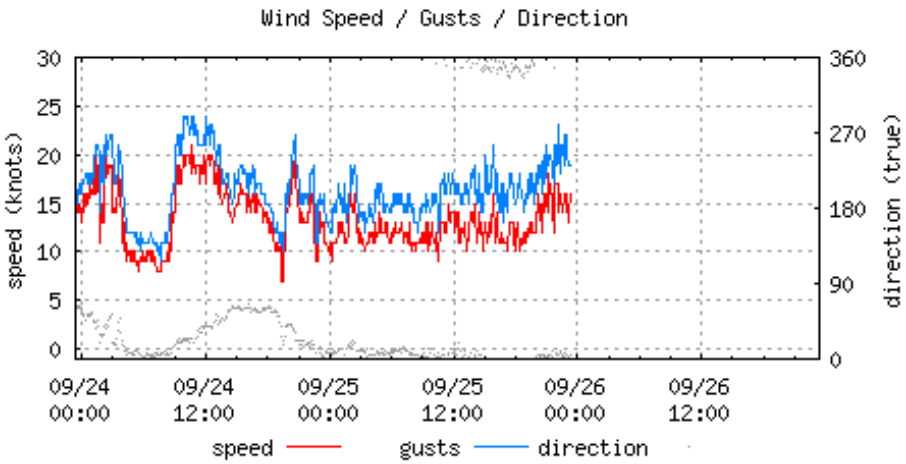
Last Observed Sample: 09/25/2017 23:18 (EDT)
Barometric Pressure: 1010.3 mb

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



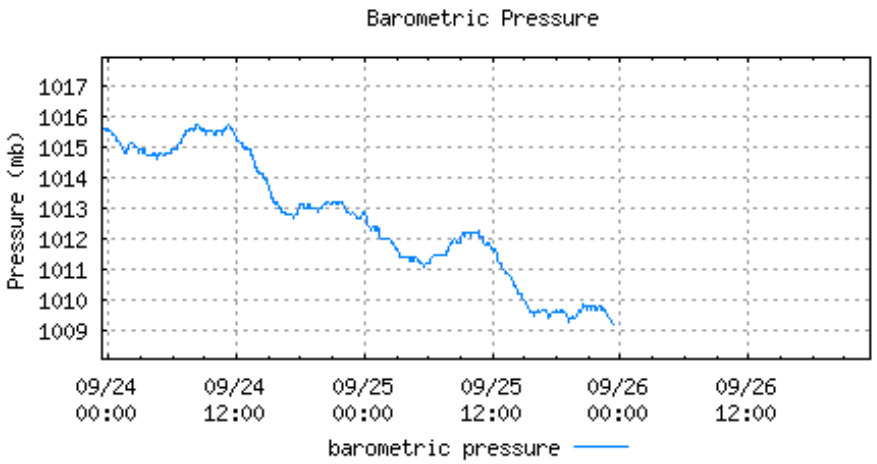
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: 0.43 ft. Predicted: -0.68 ft. Residual: 1.11 ft.
Historical Maximum Water Level: Oct 4 2015, 2.94 ft.
Next High Tide: 09/26/2017 00:04 (EDT), -0.56 ft.

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



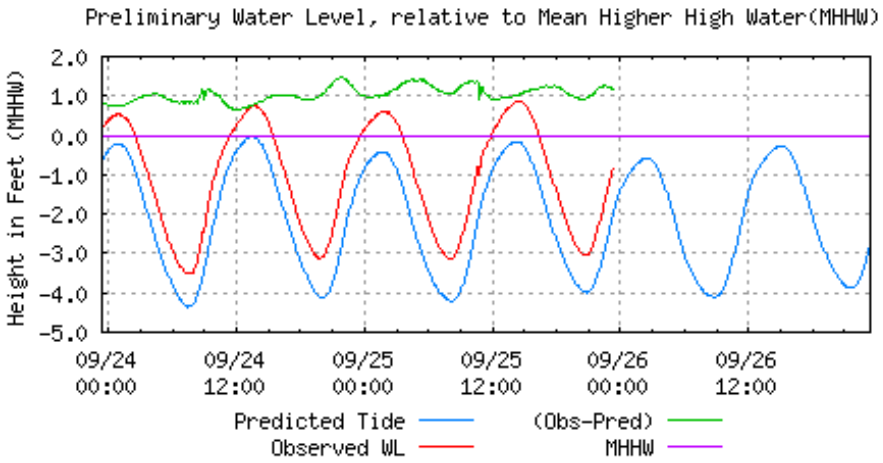
Last Observed Sample: 09/25/2017 23:18 (EDT)
Wind Speed: 16 knots Gusts: 19 knots Direction: 5° T

NOAA/NOS/CO-OPS 8658163 Wrightsville Beach, NC



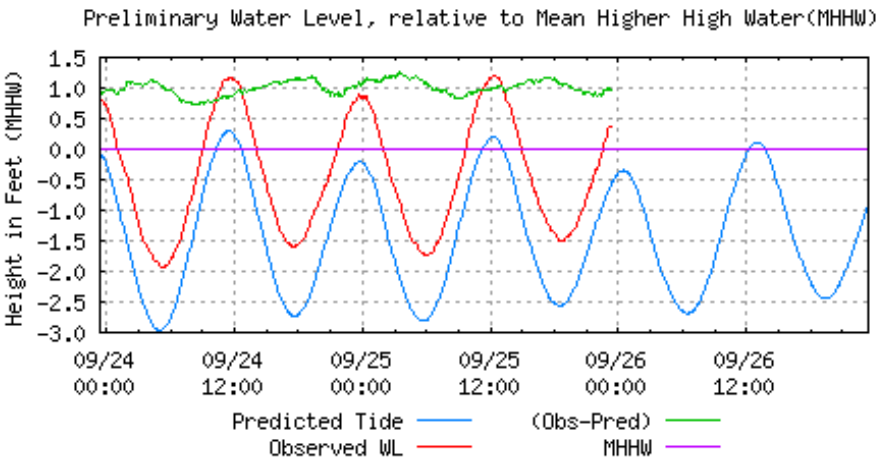
Last Observed Sample: 09/25/2017 23:18 (EDT)
Barometric Pressure: 1009.2 mb

NOAA/NOS/CO-OPS 8658120 Wilmington, NC



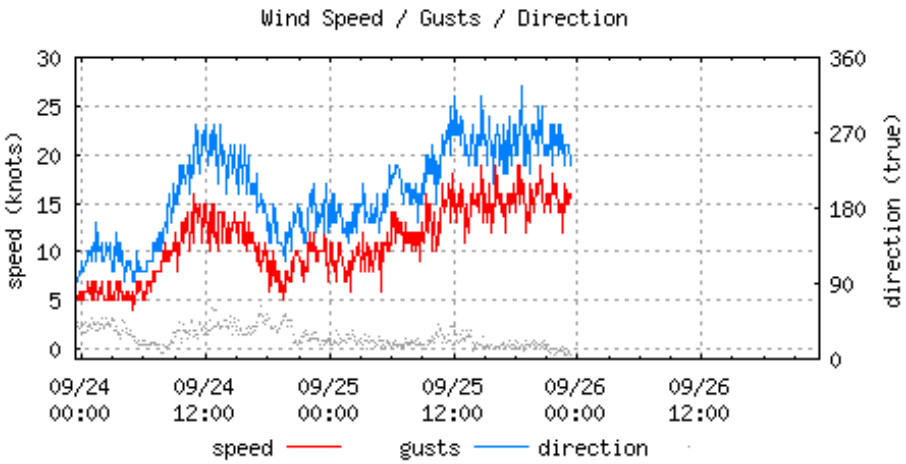
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: -0.86 ft. Predicted: -2.03 ft. Residual: 1.17 ft.
Historical Maximum Water Level: Oct 8 2016, 3.48 ft.
Next High Tide: 09/26/2017 02:29 (EDT), -0.59 ft.

NOAA/NOS/CO-OPS 8656483 Beaufort, NC



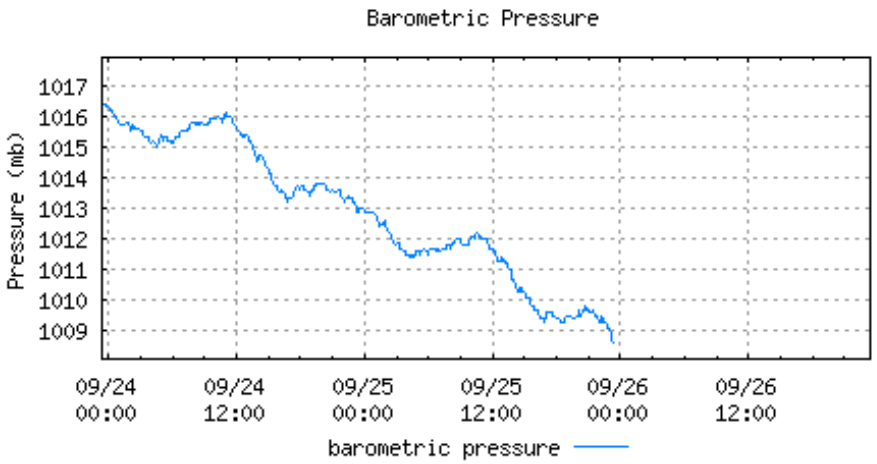
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: 0.38 ft. Predicted: -0.59 ft. Residual: 0.97 ft.
Historical Maximum Water Level: Sep 14 2005, 3.01 ft.
Next High Tide: 09/26/2017 00:30 (EDT), -0.35 ft.

NOAA/NOS/CO-OPS 8656483 Beaufort, NC



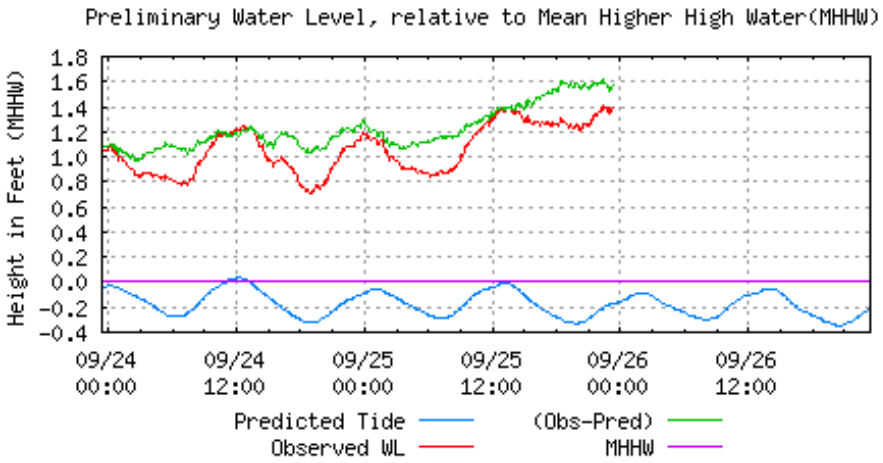
Last Observed Sample: 09/25/2017 23:18 (EDT)
Wind Speed: 16 knots Gusts: 19 knots Direction: 6° T

NOAA/NOS/CO-OPS 8656483 Beaufort, NC



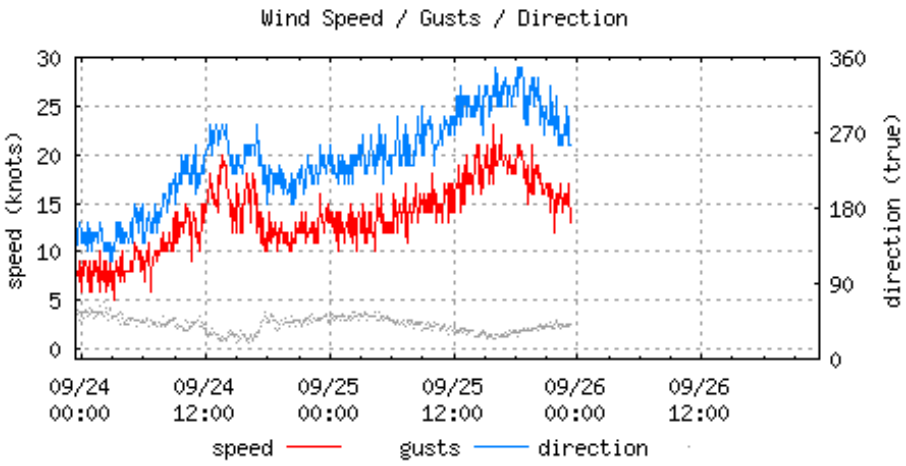
Last Observed Sample: 09/25/2017 23:18 (EDT)
Barometric Pressure: 1008.6 mb

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC



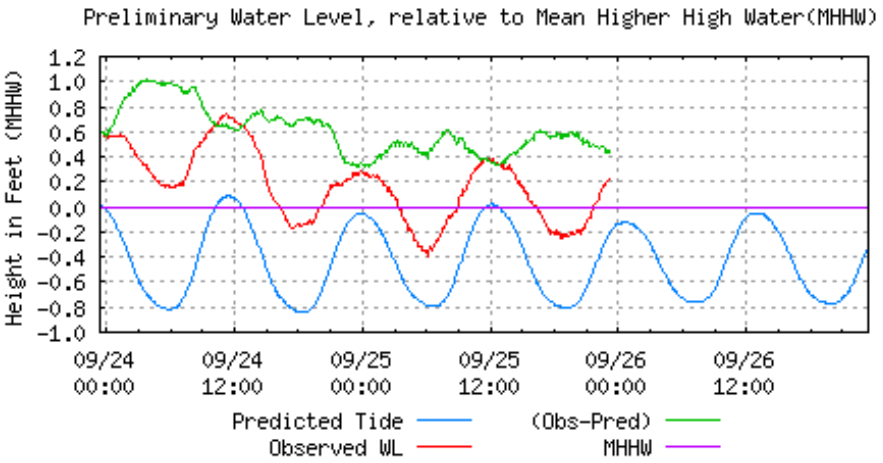
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: 1.40 ft. Predicted: -0.17 ft. Residual: 1.57 ft.
Historical Maximum Water Level: Oct 9 2016, 5.71 ft.
Next High Tide: 09/26/2017 02:01 (EDT), -0.09 ft.

NOAA/NOS/CO-OPS 8654467 USCG Station Hatteras, NC



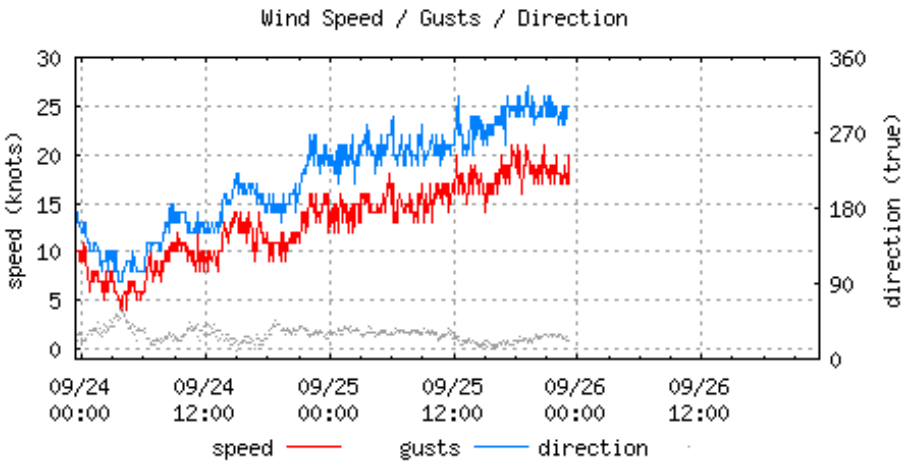
Last Observed Sample: 09/25/2017 23:18 (EDT)
Wind Speed: 13 knots Gusts: 21 knots Direction: 42° T

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC



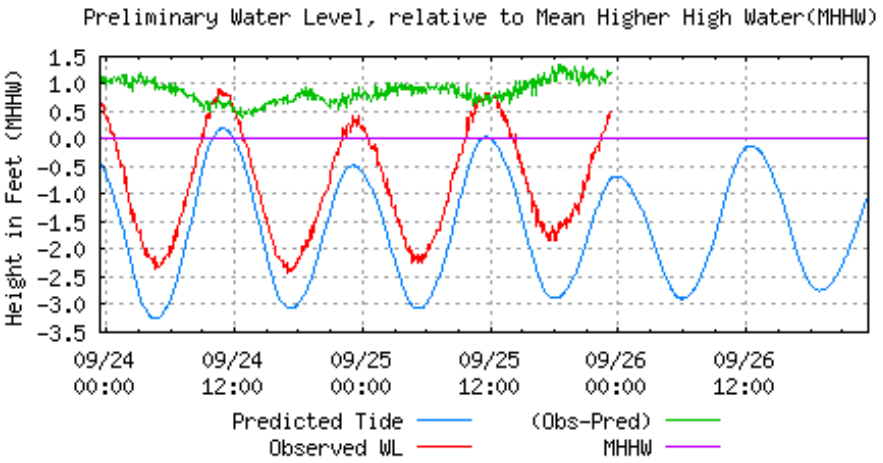
Last Observed Sample: 09/25/2017 23:12 (EDT). Data relative to MHHW
Observed: 0.23 ft. Predicted: -0.20 ft. Residual: 0.43 ft.
Historical Maximum Water Level: Aug 28 2011, 6.32 ft.
Next High Tide: 09/26/2017 00:35 (EDT), -0.12 ft.

NOAA/NOS/CO-OPS 8652587 Oregon Inlet Marina, NC



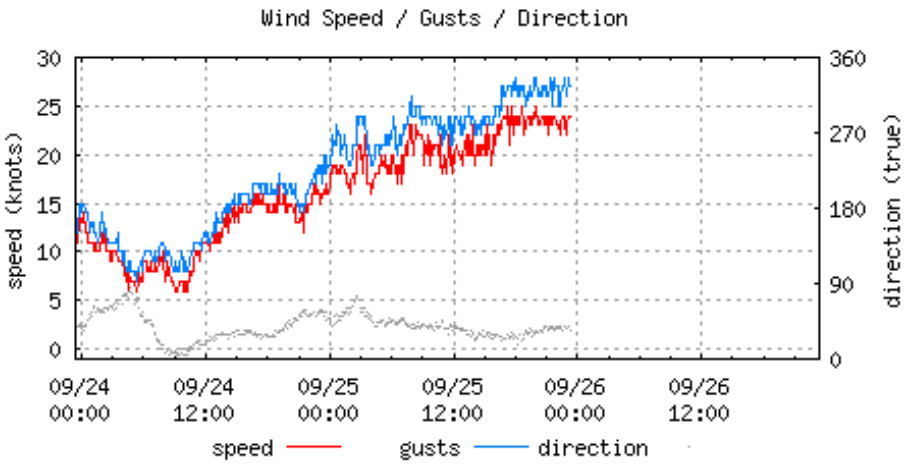
Last Observed Sample: 09/25/2017 23:12 (EDT)
Wind Speed: 20 knots Gusts: 25 knots Direction: 21° T

NOAA/NOS/CO-OPS 8651370 Duck, NC



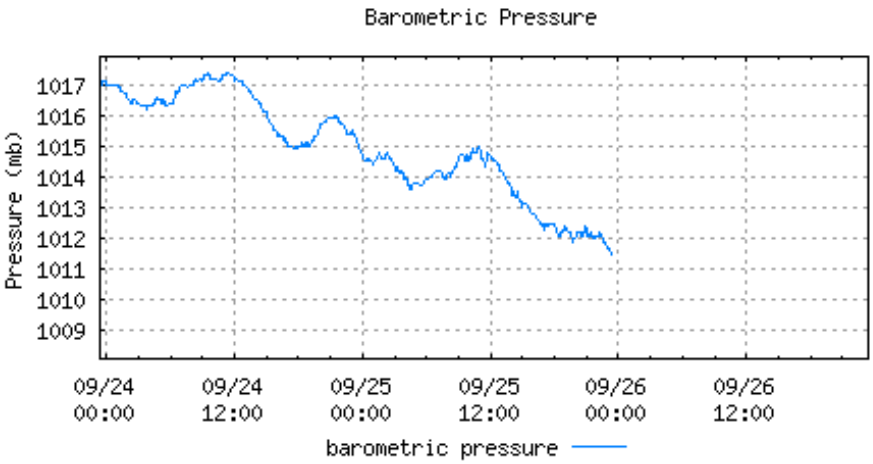
Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: 0.50 ft. Predicted: -0.72 ft. Residual: 1.22 ft.
Historical Maximum Water Level: Sep 18 2003, 4.13 ft.
Next High Tide: 09/25/2017 23:51 (EDT), -0.67 ft.

NOAA/NOS/CO-OPS 8651370 Duck, NC



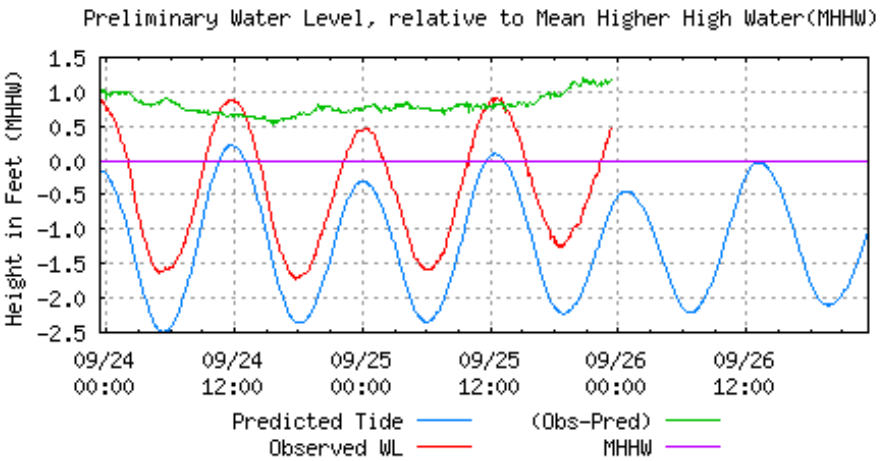
Last Observed Sample: 09/25/2017 23:18 (EDT)
Wind Speed: 24 knots Gusts: 27 knots Direction: 35° T

NOAA/NOS/CO-OPS 8651370 Duck, NC



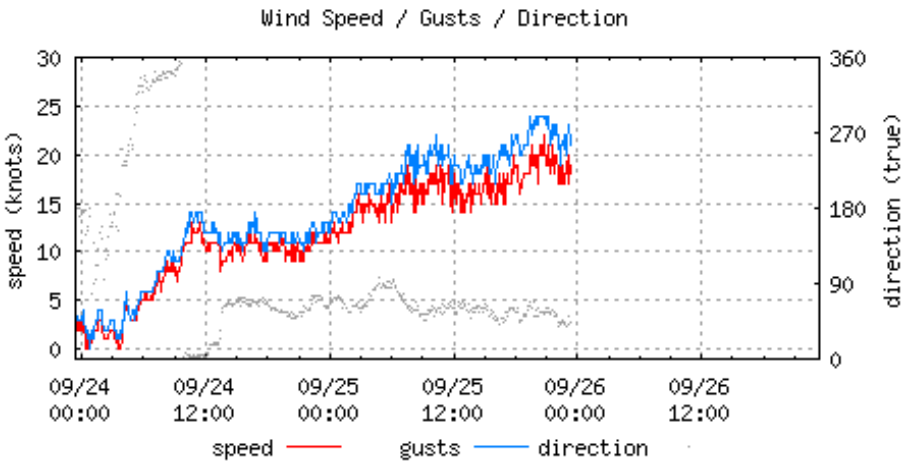
Last Observed Sample: 09/25/2017 23:18 (EDT)
Barometric Pressure: 1011.5 mb

NOAA/NOS/CO-OPS 8638863 Chesapeake Bay Bridge Tunnel, VA



Last Observed Sample: 09/25/2017 23:18 (EDT). Data relative to MHHW
Observed: 0.47 ft. Predicted: -0.71 ft. Residual: 1.18 ft.
Historical Maximum Water Level: Nov 12 2009, 4.66 ft.
Next High Tide: 09/26/2017 00:43 (EDT), -0.45 ft.

NOAA/NOS/CO-OPS 8638863 Chesapeake Bay Bridge Tunnel, VA



Last Observed Sample: 09/25/2017 23:18 (EDT)
Wind Speed: 19 knots Gusts: 21 knots Direction: 44° T

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8665530	Charleston, Cooper River Entrance, SC	09/25/2017 23:18 (EDT)	0.09 ft	-0.96 ft	1.05 ft	1.20 ft
8662245	Oyster Landing (N Inlet Estuary), SC	09/25/2017 23:18 (EDT)	-0.55 ft	-1.29 ft	0.74 ft	1.04 ft
8661070	Springmaid Pier, SC	09/25/2017 23:18 (EDT)	-0.15 ft	-1.04 ft	0.89 ft	0.77 ft
8658163	Wrightsville Beach, NC	09/25/2017 23:18 (EDT)	0.43 ft	-0.68 ft	1.11 ft	1.32 ft
8658120	Wilmington, NC	09/25/2017 23:18 (EDT)	-0.86 ft	-2.03 ft	1.17 ft	0.87 ft
8656483	Beaufort, NC	09/25/2017 23:18 (EDT)	0.38 ft	-0.59 ft	0.97 ft	1.21 ft
8654467	USCG Station Hatteras, NC	09/25/2017 23:18 (EDT)	1.40 ft	-0.17 ft	1.57 ft	1.41 ft
8652587	Oregon Inlet Marina, NC	09/25/2017 23:12 (EDT)	0.23 ft	-0.20 ft	0.43 ft	0.39 ft
8651370	Duck, NC	09/25/2017 23:18 (EDT)	0.50 ft	-0.72 ft	1.22 ft	0.84 ft
8638863	Chesapeake Bay Bridge Tunnel, VA	09/25/2017 23:18 (EDT)	0.47 ft	-0.71 ft	1.18 ft	0.91 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce